

SUMMARY NOTES:

DEVELOPER/OWNER: EMILIANO GUERRERO
 FORESTAR (USA) REAL ESTATE GROUP
 16500 SAN PEDRO AVE.,
 SUITE 400
 SAN ANTONIO, TX 78232

ENGINEER: BGE, INC., TBPE-1046
 CONTACT: AARON NEUMANN, P.E.
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CIVIL CONSTRUCTION DRAWINGS: WEATHERWOOD PHASE 1 SAN ANTONIO WATER SYSTEM WASTEWATER PLANS

SEPTEMBER 2024

FLOODPLAIN INFORMATION

A PORTION OF THIS SUBDIVISION IS WITHIN A SPECIAL FLOOD HAZARD ZONE "A" AS IDENTIFIED BY THE U.S. FEDERAL EMERGENCY MANAGEMENT AGENCY BOUNDARY MAP, (FLOOD INSURANCE RATE MAP), COMMUNITY PANEL NO. 48325C0250D DATED MAY 15, 2020.

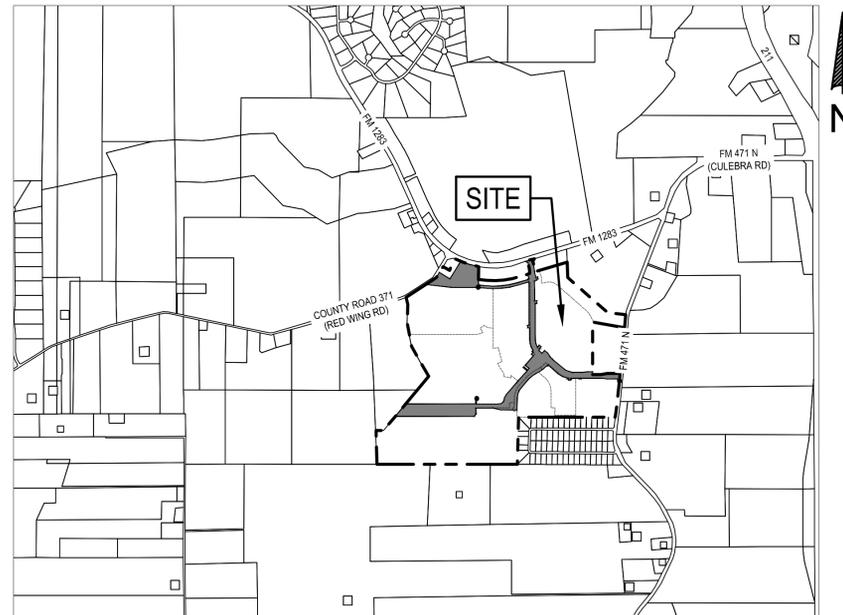
CONTROL POINTS

<p>PANEL POINT 103 SURFACE GRID N. 13,735,448.23 E. 2,026,254.82 Z. 985.41</p> <p>PANEL POINT 104 SURFACE GRID N. 13,738,239.53 E. 2,025,887.19 Z. 1020.35</p> <p>PANEL POINT 107 SURFACE GRID N. 13,735,419.26 E. 2,023,790.18 Z. 975.83</p>	<p>GENERAL NOTES</p> <p>1. COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83, AND ARE IN SURFACE COORDINATES.</p> <p>2. PANEL POINTS ARE SURVEYED WITH BGE CAPS OR A MAG NAIL WITH A BGE WASHER IN ASPHALT AND 1" X 2" CHEVRON FOR PANEL POINT.</p>
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GENERAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION.

VICINITY MAP - 1" = 2000'



Sheet List Table

Sheet Description	Sheet Title
C00.00	WW - TITLE SHEET
C01.00	WW - CIVIL GENERAL NOTES
C09.00	WW - OVERALL WASTEWATER PLAN (SHEET 1)
C09.01	WW - OVERALL WASTEWATER PLAN (SHEET 2)
C09.02	PH01-SSWR LINE A PLAN & PROFILE (STA 1+00 - STA 10+50)
C09.03	PH01-SSWR LINE A PLAN & PROFILE (STA 10+50 - STA 20+00)
C09.04	PH01-SSWR LINE A PLAN & PROFILE (STA 20+00 - END)
C09.05	PH01-SSWR LINE B PLAN & PROFILE (STA 1+00 - END)
C09.06	PH01-SSWR LINE C PLAN & PROFILE (STA 1+00 - END)
C09.07	PH01-SSWR LINE D PLAN & PROFILE (STA 1+00 - END)
C09.08	PH01-SSWR LINE E PLAN & PROFILE (STA 1+00 - END)
C10.00	WW - SAWS WASTEWATER DETAILS

REVISIONS/CORRECTIONS

SHEET LIST	DESCRIPTION	DATE	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	ACCEPTED BY	APPROVAL DATE

FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)
 DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO STATE: TX ZIP: 78232
 PHONE: N/A FAX: N/A
 SAWS BLOCK MAP # 052608 TOTAL EDUS N/A TOTAL ACREAGE 23.6
 TOTAL LINEAR FOOTAGE OF PIPE 4,349 PLAT NO. 24-11800247
 NUMBER OF LOTS 0 SAWS JOB NO. 22-1623



SUBMITTED BY

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 78216
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DATE:



Know what's below.
 Call before you dig.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



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SAWS SEWER NOTES :

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER O/FERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE...
A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210) 233-2014.
B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISIONING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS...
2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHALL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION ITEM NO. 865, "BYPASS PUMPING".
3. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION AT (210) 233-2973 AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN...
4. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET THE REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.41E(4)(B).
5. ELEVATION POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS.
6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP).
7. MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION.
8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

TREE PROTECTION AND PRESERVATION GENERAL NOTES :

- 1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES.
4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES.
6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT.
8. PLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT - OF - WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING.
11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS.
14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST.
15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES.

SAWS GENERAL NOTES :

- 1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM, TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
B. CURRENT TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE.
C. CURRENT SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION.
D. CURRENT CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).
2. THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS.
3. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE.
4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT (210) 233-2973 ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.
5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE.
6. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT OF THE PROJECT'S CONSTRUCTION.
8. ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.
10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS.
12. COMPACTON NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTON REQUIREMENTS ON ALL TRENCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY.
13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

TCEQ 0596 NOTES:

- 1. THIS ORGANIZED SEWAGE COLLECTION SYSTEM (SCS) MUST BE CONSTRUCTED IN ACCORDANCE WITH 30 TEXAS ADMINISTRATIVE CODE (TAC) §213.5(C), THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY'S (TCEQ) EDWARDS AQUIFER RULES AND ANY LOCAL GOVERNMENT STANDARDS SPECIFICATIONS.
2. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE PRESIDING TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES.
3. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
4. BLASTING PROCEDURES FOR PROTECTION OF EXISTING SEWER LINES AND OTHER UTILITIES WILL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION CRITERIA.
5. ALL MANHOLES CONSTRUCTED OR REHABILITATED ON THIS PROJECT MUST HAVE WATERTIGHT SIZE ON SIZE RESILIENT CONNECTORS ALLOWING FOR DIFFERENTIAL SETTLEMENT.
6. TRENCHING, BEDDING AND BACKFILL MUST CONFORM WITH 30 TAC §217.54.
7. SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE.
8. SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE.
9. ALL SEWER LINES MUST BE TESTED IN ACCORDANCE WITH 30 TAC §217.57.
10. (A) A PIPE MUST BE PRESSURIZED TO 3.5 POUNDS PER SQUARE INCH (PSI) GREATER THAN THE PRESSURE EXERTED BY GROUNDWATER ABOVE THE PIPE.
11. (B) IF ANY PRESSURE LOSS OR LEAKAGE HAS OCCURRED DURING THE FIRST 25% OF THE CALCULATED TESTING TIME.
12. (C) SINCE K VALUE OR LESS THAN 1.0 MAY NOT BE USED, THE MINIMUM TESTING TIME FOR EACH PIPE DIAMETERS IS SHOWN IN THE FOLLOWING TABLE C.3.

Table with 4 columns: PIPE DIAMETER (IN), MINIMUM TIME (SEC), MAXIMUM LENGTH FOR MINIMUM TIME (FT), TIME FOR LONGER LENGTH (SEC/FT). Rows include diameters from 6 to 33 inches.

- (A) AN OWNER MAY STOP A TEST IF NO PRESSURE LOSS HAS OCCURRED DURING THE FIRST 25% OF THE CALCULATED TESTING TIME.
(B) IF ANY PRESSURE LOSS OR LEAKAGE HAS OCCURRED DURING THE FIRST 25% OF A TESTING PERIOD, THEN THE TEST MUST CONTINUE FOR THE ENTIRE TEST DURATIONS AS OUTLINED ABOVE OR UNTIL FAILURE.
(C) WASTEWATER COLLECTION SYSTEM PIPES WITH A 27 INCH DIAMETER OR LARGER AVERAGE INSIDE DIAMETER MAY BE AIR TESTED AT EACH JOINT INSTEAD OF FOLLOWING THE PROCEDURE OUTLINED IN THIS SECTION.
(D) A TESTING PROCEDURE FOR PIPE WITH AN INSIDE DIAMETER GREATER THAN 33 INCHES MUST BE APPROVED BY THE EXECUTIVE DIRECTOR.
2. INFILTRATION/EXFILTRATION TEST
A. THE TOTAL EXFILTRATION, AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT EXCEED 50 GALLONS PER INCH OF DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF 2.0 FEET ABOVE THE CROWN OF A PIPE AT AN EN UPSTREAM MANHOLE.
B. AN OWNER SHALL USE AN INFILTRATION TEST IN LIEU OF AN EXFILTRATION TEST WHEN PIPES ARE INSTALL BELOW THE GROUNDWATER LEVEL.
C. THE TOTAL EXFILTRATION, AS DETERMINED BY A HYDROSTATIC HEAD TEST, MUST NOT EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE 24 HOURS AT A MINIMUM TEST HEAD OF TWO FEET ABOVE THE CROWN OF A PIPE AT AN UPSTREAM MANHOLE.
D. FOR CONSTRUCTION WITHIN A 25-YEAR FLOOD PLAIN, THE INFILTRATION OR EXFILTRATIONS MUST NOT EXCEED 10 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT THE SAME MINIMUM TEST HEAD AS IN SUBPARAGRAPH (C) OF THIS PARAGRAPH.
E. IF THE QUANTITY OF INFILTRATION OR EXFILTRATION EXCEEDS THE MAXIMUM QUANTITY SPECIFIED, AN OWNER SHALL UNDERTAKE REMEDIAL ACTION IN ORDER TO REDUCE THE INFILTRATION OR EXFILTRATION TO AN AMOUNT WITHIN THE LIMITS SPECIFIED.
(A) MANDREL SIZING
(i) A RIGID MANDREL MUST HAVE AN OUTSIDE DIAMETER (OD) NOT LESS THAN 95 % OF THE BASE INSIDE DIAMETER (ID) OF AVERAGE ID OF A PIPE.
(ii) IF A MANDREL SIZING DIAMETER IS NOT SPECIFIED IN THE APPROPRIATE STANDARD, THE MANDREL MUST HAVE AN OD EQUAL TO 95% OF THE ID OF A PIPE.
(iii) ALL DIMENSIONS MUST MEET THE APPROPRIATE STANDARD.
(B) MANDREL DESIGN
(i) A RIGID MANDREL MUST BE CONSTRUCTED OF A METAL OR A RIGID PLASTIC MATERIAL THAT CAN WITHSTAND 200 PSI WITHOUT BEING DEFORMED.
(ii) A TEST MAY NOT USE TELEVISION INSPECTION AS A SUBSTITUTE FOR A DEFLECTION TEST.
(iii) IF REQUESTED, THE EXECUTIVE DIRECTOR MAY APPROVE THE USE OF A DEFLECTOMETER OR A MANDREL.

- 2. FOR A GRAVITY COLLECTION SYSTEM PIPE WITH AN INSIDE DIAMETER 27 INCHES AND GREATER, OTHER TEST METHODS MAY BE USED TO DETERMINE VERTICAL DEFLECTION.
3. A DEFLECTION TEST METHOD MUST BE ACCURATE TO WITHIN PLUS OR MINUS 0.2% DEFLECTION.
4. AN OWNER SHALL NOT CONDUCT A DEFLECTION TEST UNTIL AT LEAST 30 DAYS AFTER THE FINAL BACKFILL.
5. GRAVITY COLLECTION SYSTEM PIPE DEFLECTION MUST NOT EXCEED FIVE PERCENT (5%).
6. IF A PIPE SECTION FAILS A DEFLECTION TEST, AN OWNER SHALL CORRECT THE PROBLEM AND CONDUCT A SECOND TEST AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
7. ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 20TAC §217.58.
(1) HYDROSTATIC TESTING
(A) ALL MANHOLES MUST PASS A LEAKAGE TEST.
(B) AN OWNER SHALL TEST EACH MANHOLE (AFTER ASSEMBLY AND BACKFILLING) FOR LEAKAGE, SEPARATE AND INDEPENDENT OF THE COLLECTION SYSTEM PIPES.
(2) VACUUM TESTING
(A) TO PERFORM A VACUUM TEST, AN OWNER SHALL PLUG ALL LIFT HOLES AND EXTERIOR JOINTS WITH A NON-SHRINK GROUT AND PLUG ALL PIPES ENTERING A MANHOLE.
(B) NO GROUT MUST BE PLACED IN HORIZONTAL JOINTS BEFORE TESTING.
(C) STUB-OUTS, MANHOLE BOOTHS, AND PIPE PLUGS MUST BE SECURED TO PREVENT MOVEMENT WHILE A VACUUM IS DRAWN.
(D) AN OWNER SHALL USE A MINIMUM 60 INCH LB TORQUE WRENCH TO TIGHTEN THE EXTERNAL CLAMPS THAT SECURE A TEST COVER TO THE TOP OF A MANHOLE.
(E) A TEST HEAD MUST BE PLACED AT THE INSIDE OF THE TOP OF A CONE SECTION, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
(F) THERE MUST BE A VACUUM OF 10 INCHES OF MERCURY INSIDE A MANHOLE TO PERFORM A VALID TEST.
(G) A MANHOLE PASSES THE TEST IF AFTER 2.0 MINUTES AND WITH ALL VALVES CLOSED, THE VACUUM IS AT LEAST 9.0 INCHES OF MERCURY.

- 17. ALL PRIVATE SERVICE LATERALS MUST BE INSPECTED AND CERTIFIED IN ACCORDANCE WITH 30 TAC §213.5(C)(3)(I). AFTER INSTALLATION OF AND, PRIOR TO COVERING AND CONNECTING A PRIVATE SERVICE LATERAL TO AN EXISTING ORGANIZED SEWAGE COLLECTION SYSTEM, A TEXAS LICENSED PROFESSIONAL ENGINEER, TEXAS REGISTERED SANITARIAN, OR APPROPRIATE CITY INSPECTOR MUST VISUALLY INSPECT THE PRIVATE SERVICE LATERAL AND THE CONNECTION TO THE SEWAGE COLLECTION SYSTEM, AND CERTIFY THAT IT IS CONSTRUCTED IN CONFORMITY WITH THE APPLICABLE PROVISIONS OF THIS SECTION. THE OWNER OF THE COLLECTION SYSTEM MUST MAINTAIN SUCH CERTIFICATIONS FOR FIVE YEARS AND FORWARD COPIES TO THE APPROPRIATE REGIONAL OFFICE UPON REQUEST. CONNECTIONS MAY ONLY BE MADE TO AN APPROVED SEWAGE COLLECTION SYSTEM.

ACCESSIBILITY REQUIREMENTS:

- 1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES.
3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED.
4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED.

Form with fields for DEVELOPER NAME, DEVELOPER ADDRESS, CITY, STATE, ZIP, PHONE, FAX, SAWS BLOCK MAP #, TOTAL EDU'S N/A, TOTAL ACREAGE, TOTAL LINEAR FOOTAGE OF PIPE, NUMBER OF LOTS, SAWS JOB NO.

Table with columns: DATE, DESCRIPTION, REV.

DESIGNED BY: AGS
REVIEWED BY: KWH
DRAWN BY: AGS

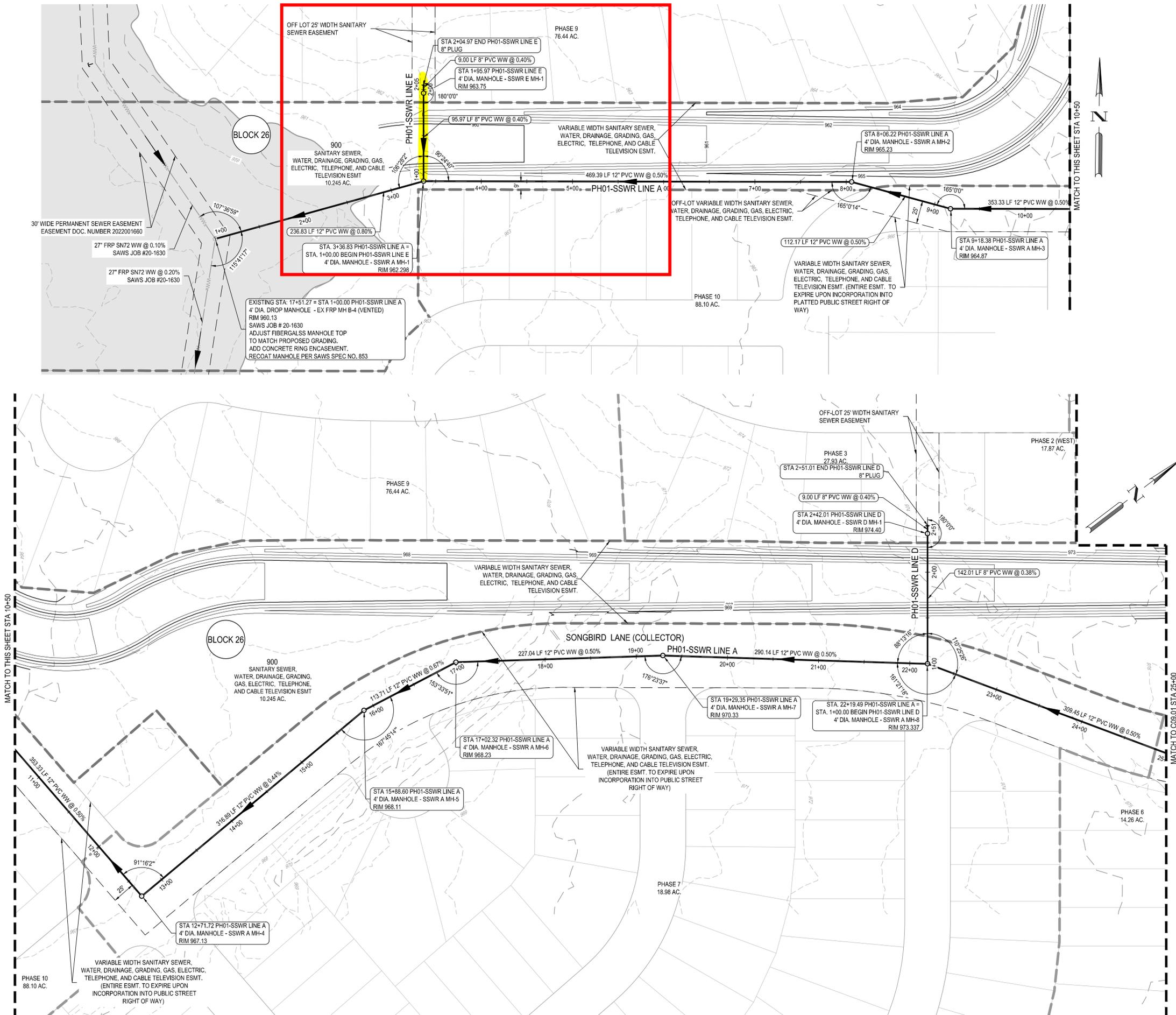


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WEATHERWOOD PHASE 1
WW - CIVIL GENERAL NOTES



G:\TX\Projects\San Antonio Projects\3439-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Shts\Wastewater Plans\C09.00 WW OVERALL WASTEWATER PLAN.dwg Layout: 3 WW - OVERALL WASTEWATER PLAN (SHEET 1) Plotted: 9/18/2024 2:12:55 PM By: Mvelasquez



0 25' 50' 100'
SCALE: 1" = 50'

LEGEND

- PROPERTY BOUNDARY
- - - PHASE 1 BOUNDARY
- - - FUTURE PHASE BOUNDARY
- - - FUTURE PROPERTY LINE
- - - E, G, T, & CATV EASEMENT
- - - EXISTING 1' CONTOUR
- - - EXISTING 5' CONTOUR
- - - PROPOSED 1' CONTOUR
- - - PROPOSED 5' CONTOUR
- PROPOSED WASTE WATER MAIN W/ FLOW ARROW
- PROPOSED WASTE WATER MANHOLE
- EXISTING WASTEWATER MAIN
- PROPOSED WATERLINE
- SINGLE WATER SERVICE
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED FIRE HYDRANT
- WATER UTILITY CROSSING SEE DETAIL SHEET C10.00
- STORM SEWER UTILITY CROSSING SEE DETAIL SHEET C10.00

UTILITY TRENCH COMPACTION
ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF SAN ANTONIO STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF SAN MARCOS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

- NOTE:**
- SEE SHEET C10.00 FOR UTILITY DETAILS
 - ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO CPS PLANS FOR FULL ELECTRIC LAYOUT.
 - SEE SHEET C01.00 FOR GENERAL UTILITY NOTES.

FAR WEST WESHERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCCTA)
DEVELOPER NAME: FORESTAR USA REAL ESTATE GROUP
DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
PHONE: N/A, FAX: N/A
SAWS BLOCK MAP #: 052608, TOTAL EDUS: N/A, TOTAL ACREAGE: 29.6
TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

WEATHERWOOD PHASE 1
WW - OVERALL WASTEWATER PLAN
(SHEET 1)

DESIGNED BY: AGS
REVIEWED BY: KWH
DRAWN BY: AGS

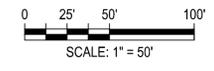
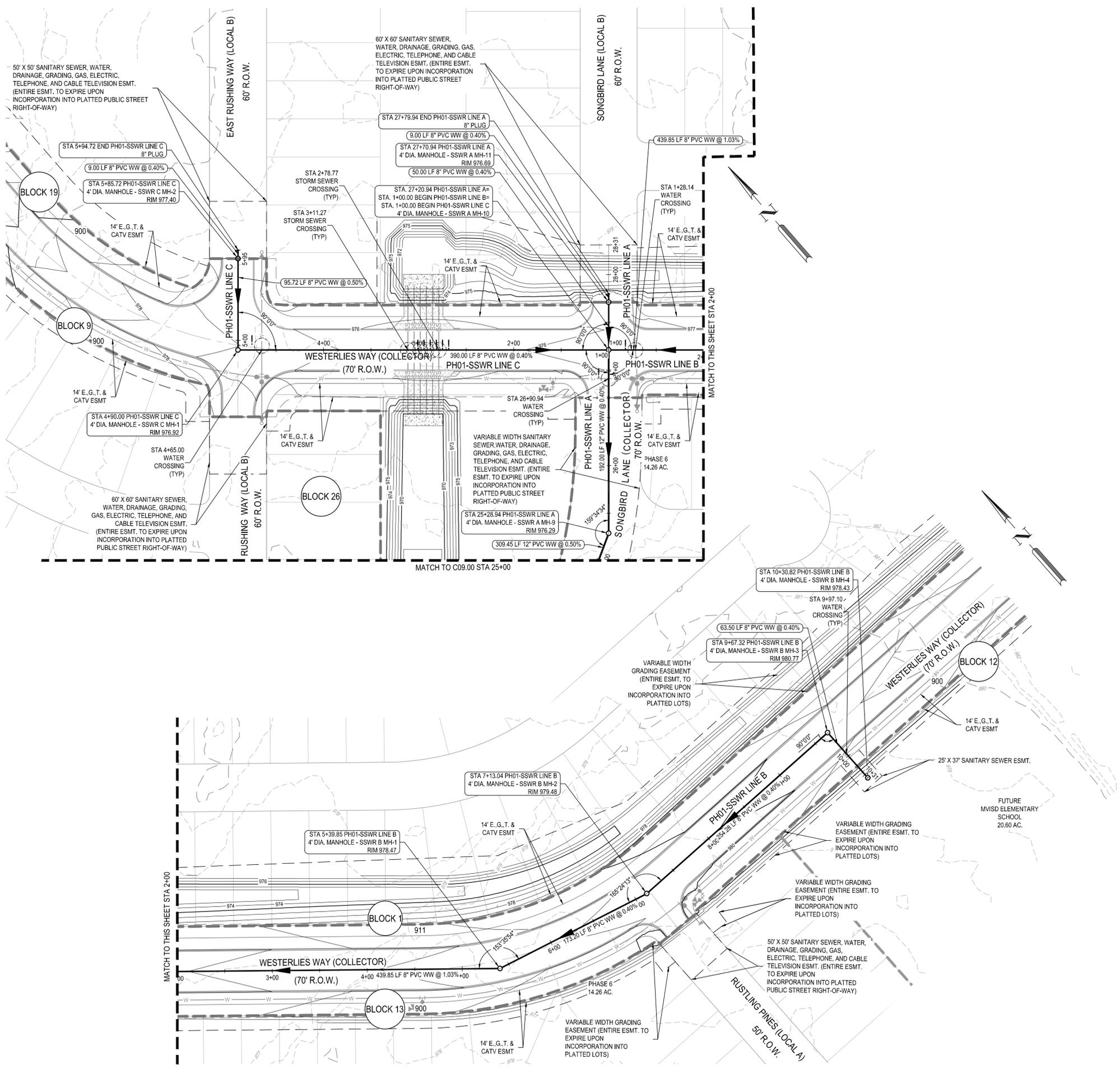
BGE
BGE, Inc.
7330 SAN PEDRO AVE, SUITE 202
SAN ANTONIO, TX 78216
TEL: 214-581-3600 • www.bgeinc.com
TXPE Registration No. P-1046

STATE OF TEXAS
AARON J. NEUMANN
114451
9/20/2024

SHEET
C09.00

REV	DESCRIPTION	DATE	APR

G:\TX\Projects\San Antonio Projects\54393-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Sha_Wastewater Plans\C09.00 WW OVERALL WASTEWATER PLAN.dwg Layout: 4 WW - OVERALL WASTEWATER PLAN (SHEET 2) Plotted: 9/18/2024 11:44:24 AM By: Mvelasquez



LEGEND

	PROPERTY BOUNDARY
	PHASE 1 BOUNDARY
	FUTURE PHASE BOUNDARY
	FUTURE PROPERTY LINE
	PUBLIC UTILITY EASEMENT (P.U.E.)
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	PROPOSED 1' CONTOUR
	PROPOSED 5' CONTOUR
	PROPOSED WASTE WATER MAIN W FLOW ARROW
	PROPOSED WASTE WATER MANHOLE
	EXISTING WASTEWATER MAIN
	PROPOSED WATERLINE
	SINGLE WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED CURB INLET
	PROPOSED FIRE HYDRANT
	WATER UTILITY CROSSING SEE DETAIL SHEET C10.00
	STORM SEWER UTILITY CROSSING SEE DETAIL SHEET C10.00

NOTE:
 1. SEE SHEET C10.00 FOR UTILITY DETAILS
 2. ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO CPS PLANS FOR FULL ELECTRICAL LAYOUT.
 3. SEE SHEET C01.00 FOR GENERAL UTILITY NOTES.

UTILITY TRENCH COMPACTION
 ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF SAN ANTONIO STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF SAN MARCOS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCC/TA)
 DEVELOPER NAME: FORESTAR USA REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608, TOTAL EDU'S N/A, TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
 NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

REV	DESCRIPTION	DATE	APR

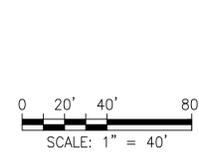
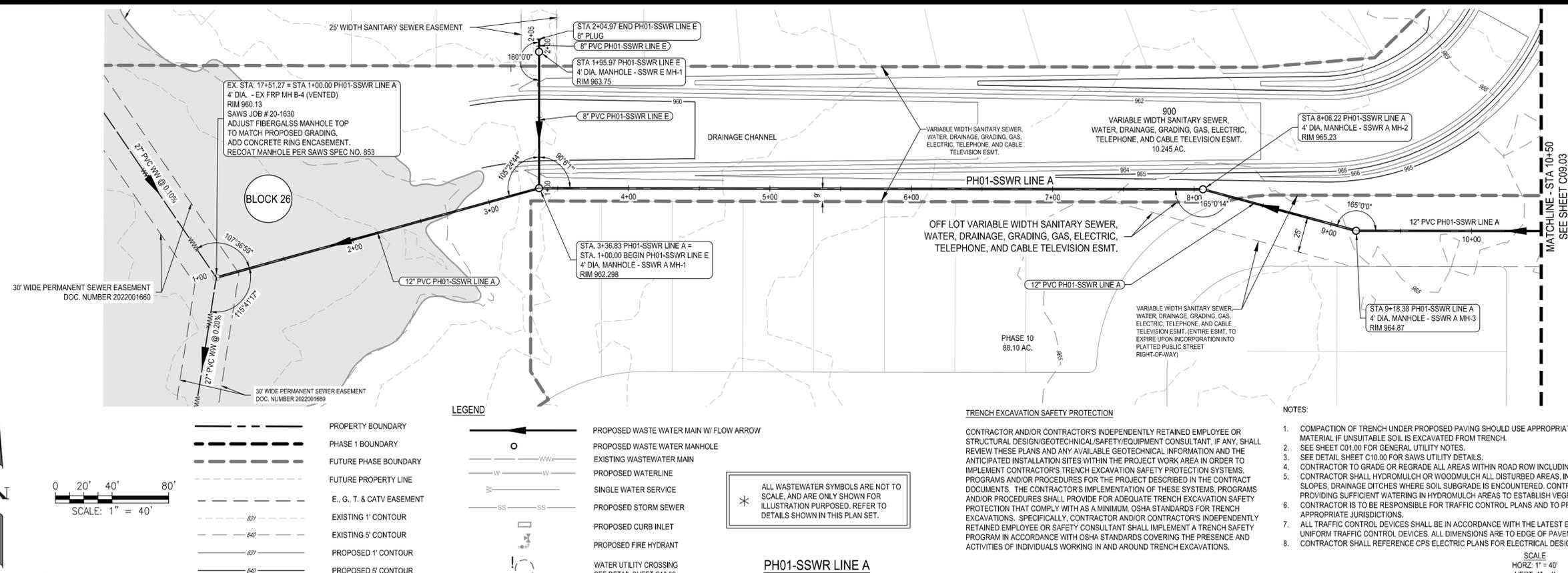
DESIGNED BY: JKZ
 REVIEWED BY: KWH
 DRAWN BY: JKZ



WEATHERWOOD PHASE 1
 WW - OVERALL WASTEWATER PLAN
 (SHEET 2)

STATE OF TEXAS
 AARON J. NEUMANN
 114451
 09/20/2024
 SHEET
 C09.01

G:\TXC\Projects\San Antonio Projects\8439-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Sha1_Wastewater Plans\C09.1A PH01-SSWR LINE A PLAN & PROFILE.dwg Layout: 5 PH01-SSWR LINE A PLAN & PROFILE (STA 1+00 - STA 10+50) Plotted: 9/18/2024 2:14:01 PM By: Mvelasquez



LEGEND	
	PROPERTY BOUNDARY
	PHASE 1 BOUNDARY
	FUTURE PHASE BOUNDARY
	FUTURE PROPERTY LINE
	E., G., T. & CATV EASEMENT
	EXISTING 1' CONTOUR
	EXISTING 5' CONTOUR
	PROPOSED 1' CONTOUR
	PROPOSED 5' CONTOUR
	PROPOSED WASTE WATER MAIN W/ FLOW ARROW
	PROPOSED WASTE WATER MANHOLE
	EXISTING WASTEWATER MAIN
	PROPOSED WATERLINE
	SINGLE WATER SERVICE
	PROPOSED STORM SEWER
	PROPOSED CURB INLET
	PROPOSED FIRE HYDRANT
	WATER UTILITY CROSSING SEE DETAIL SHEET C10.00

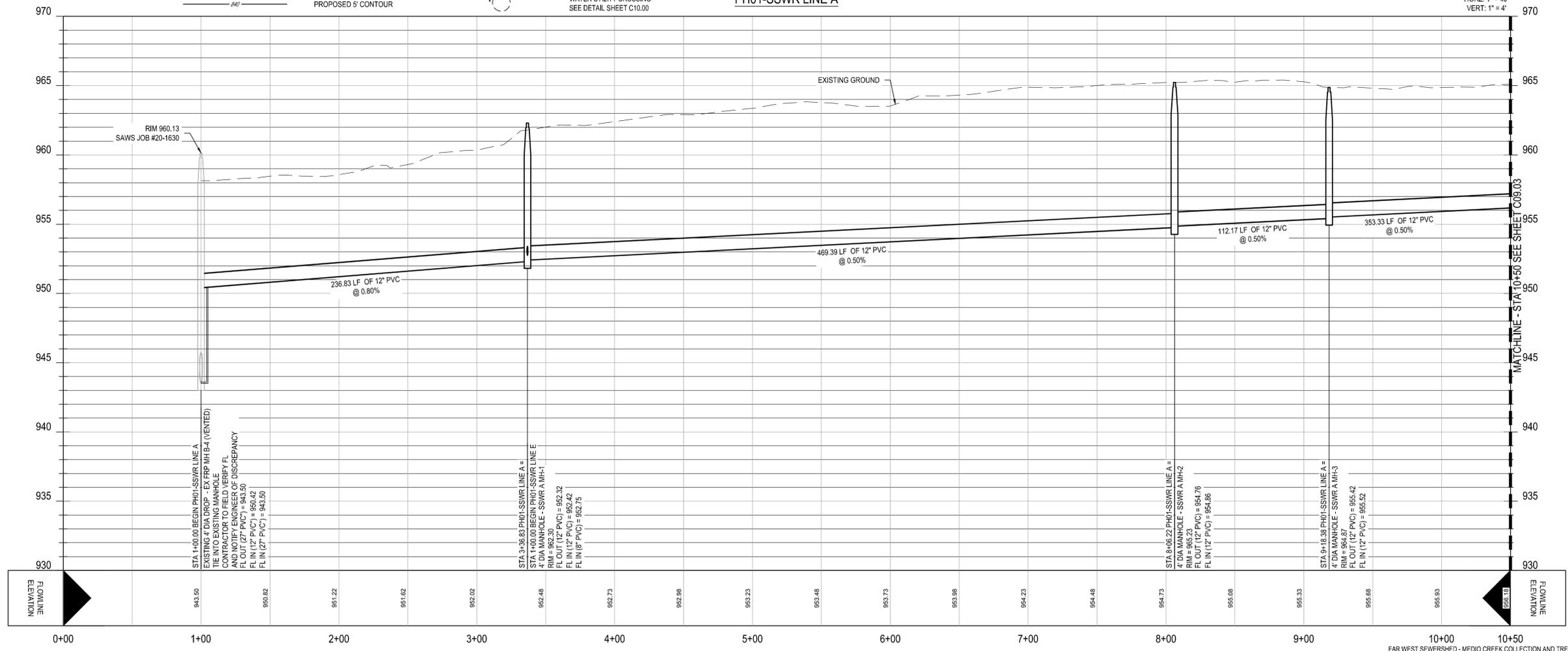
* ALL WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

TRENCH EXCAVATION SAFETY PROTECTION

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NOTES:

1. COMPACTION OF TRENCH UNDER PROPOSED PAVING SHOULD USE APPROPRIATE REPLACEMENT GRANULAR MATERIAL IF UNSUITABLE SOIL IS EXCAVATED FROM TRENCH.
2. SEE SHEET C01.00 FOR GENERAL UTILITY NOTES.
3. SEE DETAIL SHEET C10.00 FOR SAWS UTILITY DETAILS.
4. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
5. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
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8. CONTRACTOR SHALL REFERENCE CPS ELECTRIC PLANS FOR ELECTRICAL DESIGN AND TRANSFORMER LOCATION.



FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)
 DEVELOPER NAME: FORESTAR US/AL REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608, TOTAL EDU'S N/A, TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
 NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

REV	DESCRIPTION	DATE	APR

DESIGNED BY:
 REVIEWED BY:
 DRAWN BY:

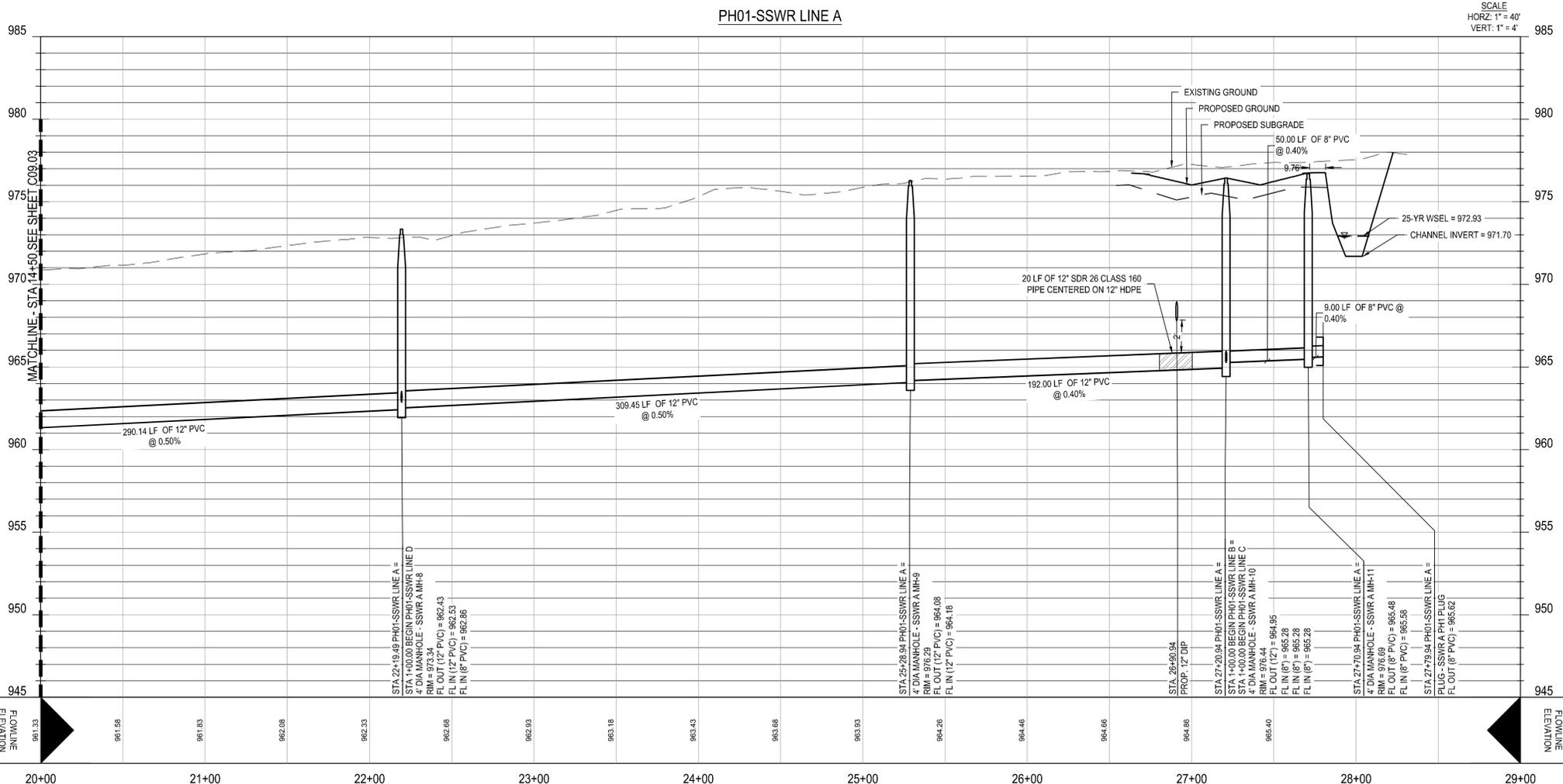
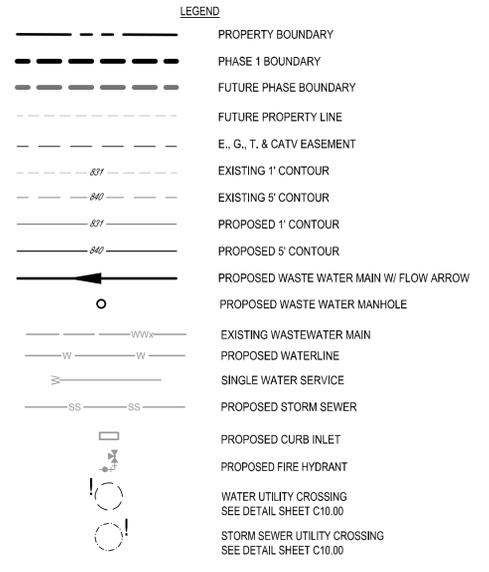
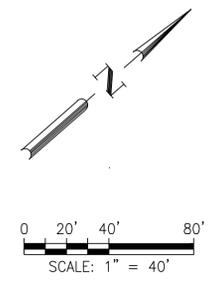
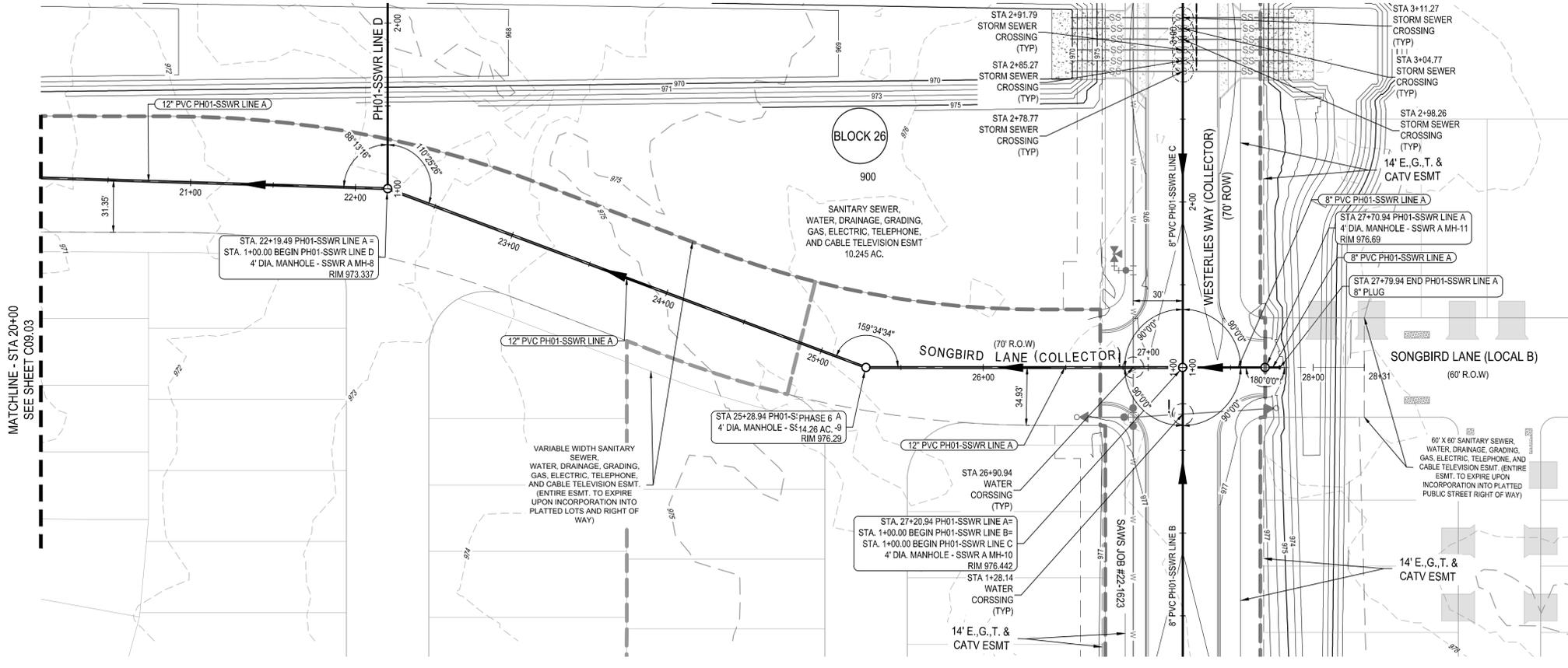


BGE, Inc.
 7330 SAN PEDRO AVE, SUITE 202
 SAN ANTONIO, TX 78216
 TEL: 214-381-3600 • www.bge.com
 TYPE Registration No. P-1046

WEATHERWOOD PHASE 1
 PH01-SSWR LINE A PLAN & PROFILE
 (STA 1+00 - STA 10+50)

STATE OF TEXAS
 AARON J. NEUMANN
 114451
 09/20/2024
 SHEET
 C09.02

G:\TXC\Projects\San Antonio Projects\8439-00 - Schuchardt Ranch\05 - Phase 1 Design\03_CADD\01_Shts\Wastewater Plans\C09.1A PH01-SSWR LINE A PLAN & PROFILE.dwg Layout: 7 PH01-SSWR LINE A PLAN & PROFILE (STA 20+00 - END) Plotted: 9/18/2024 11:45:21 AM By: Mvelasquez



- TRENCH EXCAVATION SAFETY PROTECTION**
- CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.
- NOTES:**
1. COMPACTION OF TRENCH UNDER PROPOSED PAVING SHOULD USE APPROPRIATE REPLACEMENT GRANULAR MATERIAL IF UNSUITABLE SOIL IS EXCAVATED FROM TRENCH.
 2. SEE SHEET C01.00 FOR GENERAL UTILITY NOTES.
 3. SEE DETAIL SHEET C10.00 FOR SAWS UTILITY DETAILS.
 4. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
 5. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
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* ALL WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)

DEVELOPER NAME: FORESTAR US/REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608, TOTAL EDUS/NIA: TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
 NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

REV	DESCRIPTION	DATE	APR

DESIGNED BY: _____
 REVIEWED BY: _____
 DRAWN BY: _____

BGE

BGE, Inc.
 7330 SAN PEDRO AVE, SUITE 302
 SAN ANTONIO, TX 78216
 TEL: 214-581-3600 • www.bge.com
 TYPE Registration No. P-1046

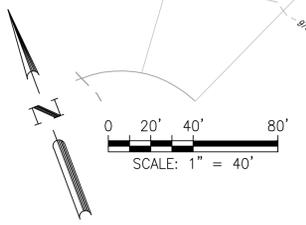
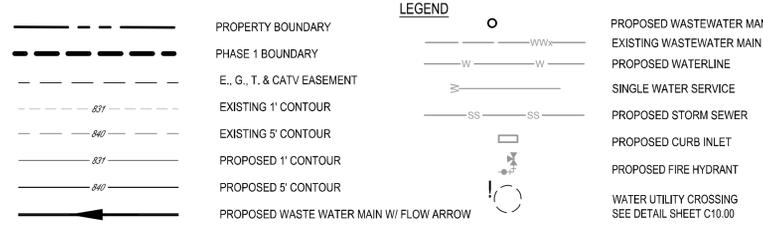
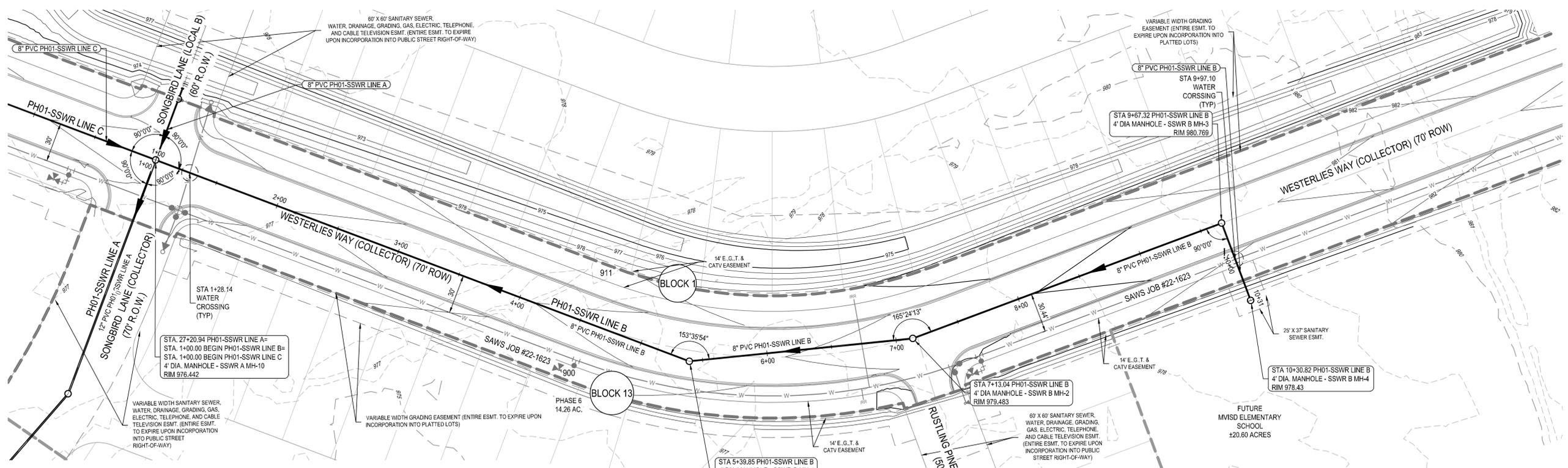
WEATHERWOOD PHASE 1

PH01-SSWR LINE A PLAN & PROFILE
 (STA 20+00 - END)

STATE OF TEXAS
 AARON J. NEUMANN
 114451

09/20/2024

SHEET
 C09.04



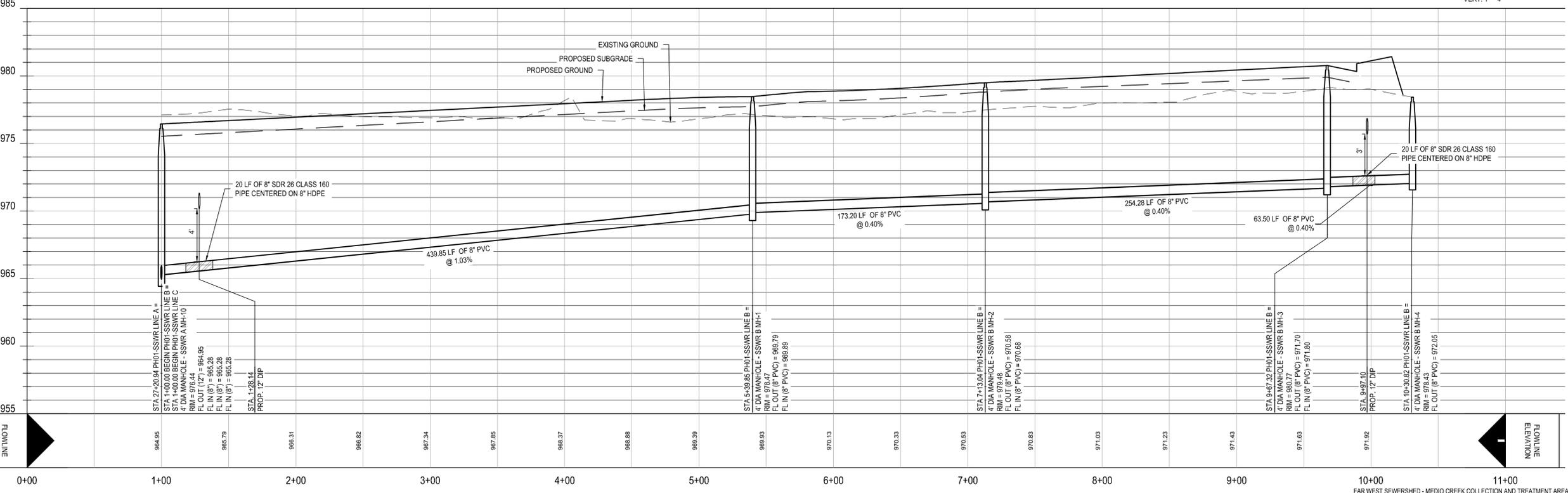
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PH01-SSWR LINE B



SCALE
HORIZ: 1" = 40'
VERT: 1" = 4'

FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)
DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP
DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE, SUITE 400
CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
PHONE: N/A, FAX: N/A
SAWS BLOCK MAP #: 052608, TOTAL EDU'S N/A, TOTAL ACREAGE: 29.6
TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

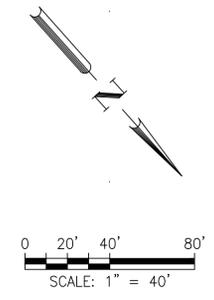
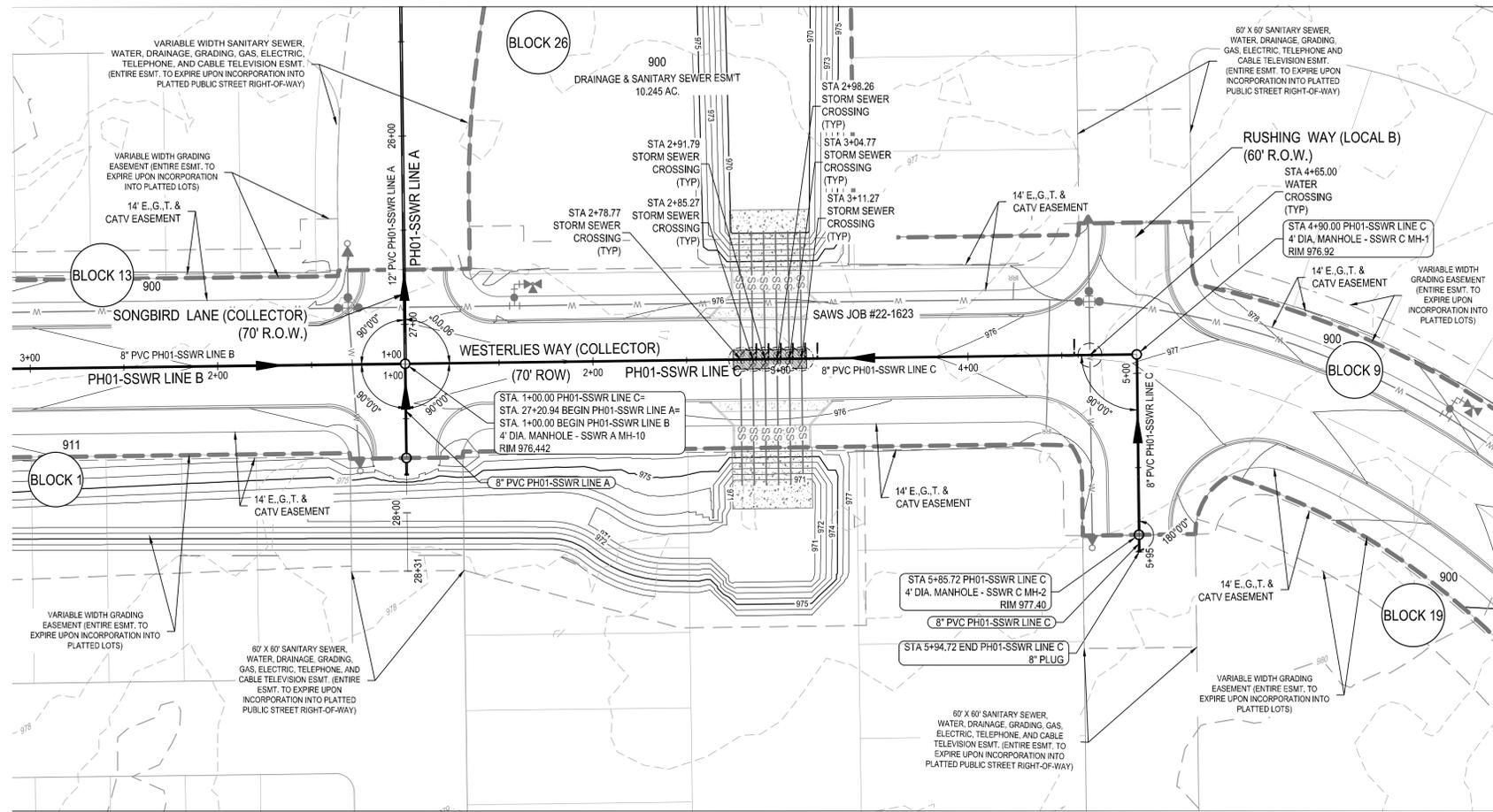
REV	DESCRIPTION	DATE	APR

DESIGNED BY: _____
 REVIEWED BY: _____
 DRAWN BY: _____

BGE, Inc.
 7330 SAN PEDRO AVE, SUITE 202
 SAN ANTONIO, TX 78216
 TEL: 214-581-3600 • WWW.BGE.COM
 TXPE Registration No. P-1046

WEATHERWOOD PHASE 1
 PH01-SSWR LINE B PLAN & PROFILE
 (STA 1+00 - END)

09/20/2024
 SHEET
 C09.05



TRENCH EXCAVATION SAFETY PROTECTION

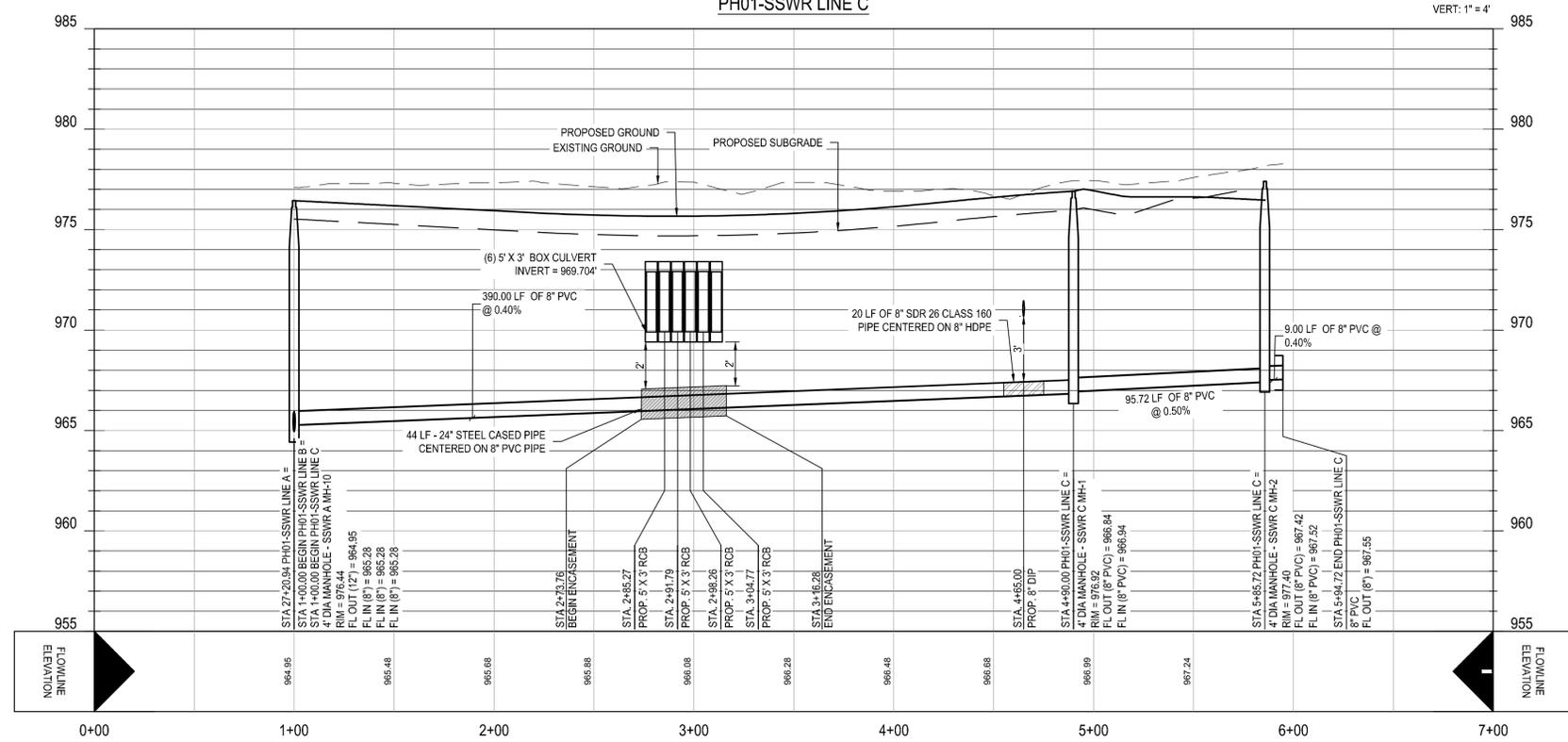
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

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PH01-SSWR LINE C

SCALE
HORIZ: 1" = 40'
VERT: 1" = 4'



LEGEND

---	PROPERTY BOUNDARY
---	PHASE 1 BOUNDARY
---	FUTURE PHASE BOUNDARY
---	FUTURE PROPERTY LINE
---	E., G., T. & CATV EASEMENT
---	EXISTING 1" CONTOUR
---	EXISTING 5" CONTOUR
---	PROPOSED 1" CONTOUR
---	PROPOSED 5" CONTOUR
---	PROPOSED WASTE WATER MAIN W/ FLOW ARROW
---	SINGLE 6" PVC WASTEWATER SERVICE
○	PROPOSED WASTE WATER MANHOLE
---	EXISTING WASTEWATER MAIN
---	PROPOSED WATERLINE
---	SINGLE WATER SERVICE
---	PROPOSED STORM SEWER
(X+XXX)	W.W. LATERAL STATION
□	PROPOSED CURB INLET
○	PROPOSED FIRE HYDRANT
---	WATER UTILITY CROSSING SEE DETAIL SHEET C10.00
---	STORM SEWER UTILITY CROSSING SEE DETAIL SHEET C10.00

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FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)

DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO, STATE: TX, ZIP: 78222
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608, TOTAL EDU'S/N/A, TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
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DRAWN BY:

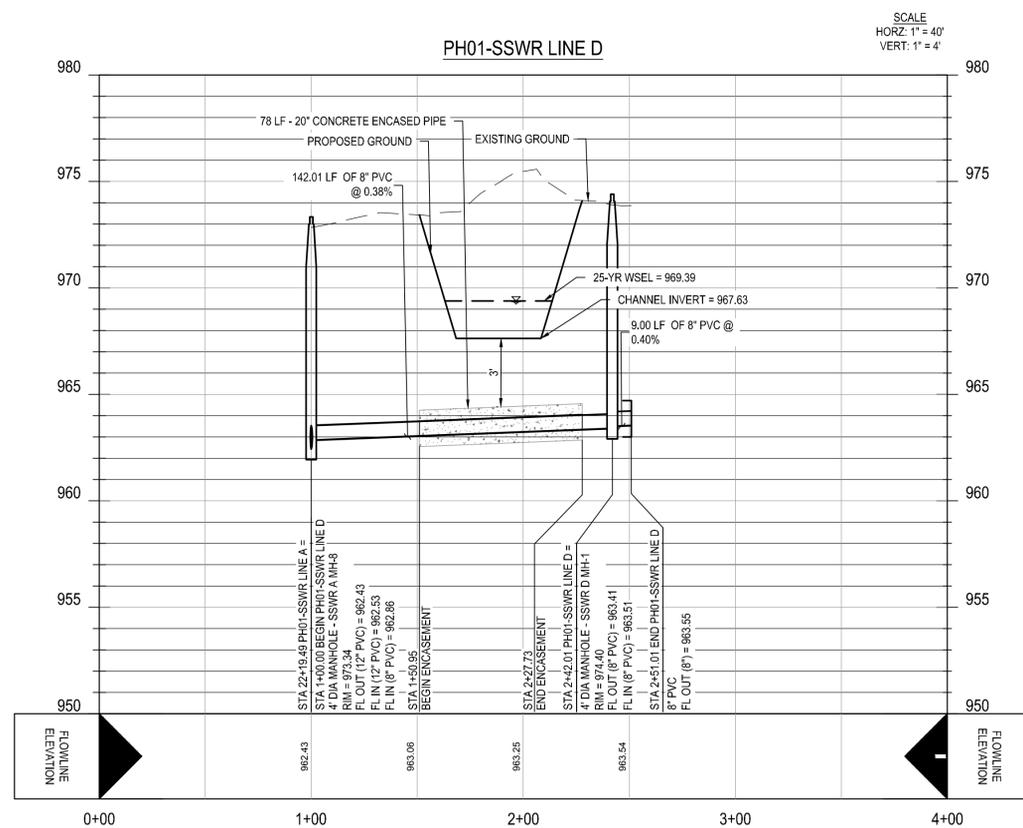
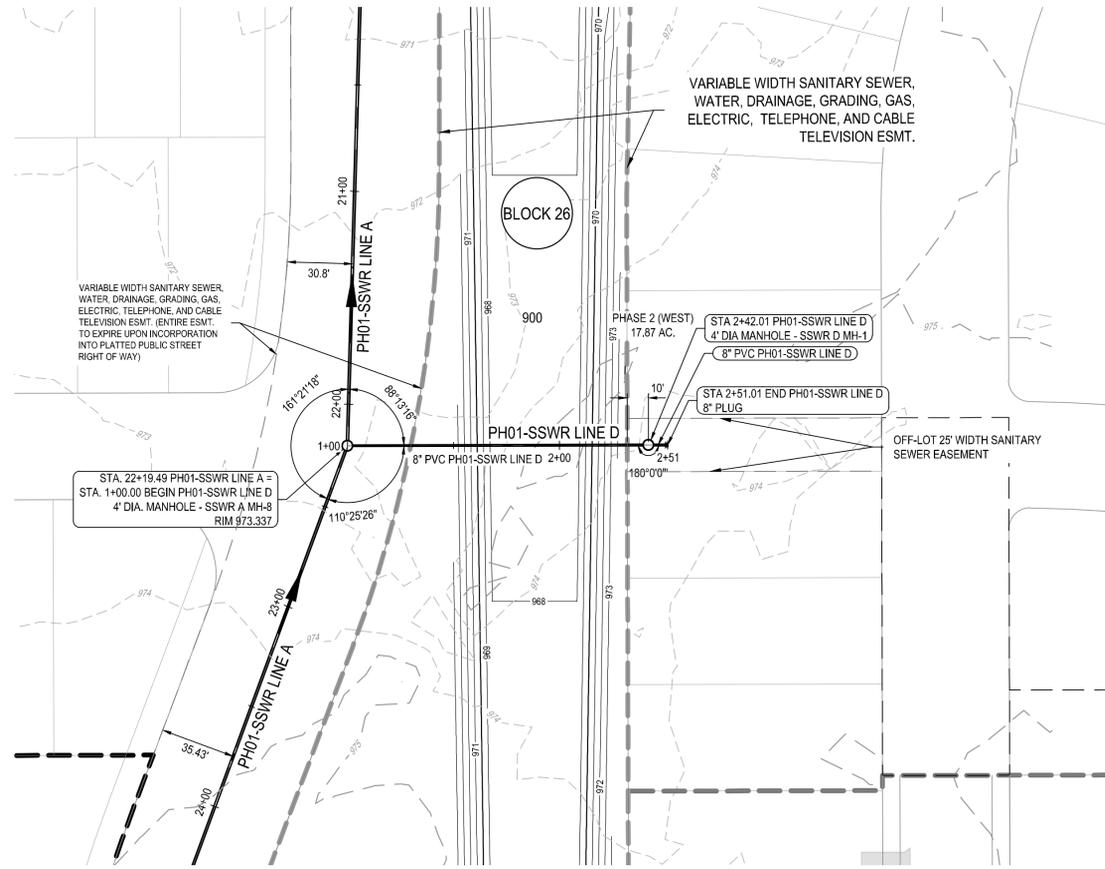


BGE, Inc.
7330 SAN PEDRO AVE, SUITE 202
SAN ANTONIO, TX 78216
TEL: 214-581-3600 • www.bge.com
TXPE Registration No. P-1046

WEATHERWOOD PHASE 1
PH01-SSWR LINE C PLAN & PROFILE
(STA 1+00 - END)

STATE OF TEXAS
AARON J. NEUMANN
114451
09/20/2024
SHEET
C09.06

G:\TXC\Projects\San Antonio Projects\8439-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Shts\Wastewater Plans\C09_18 PH01-SSWR LINE H PLAN & PROFILE.dwg Layout: 10 PH01-SSWR LINE D PLAN & PROFILE (STA 1+00 - END) Plotted: 10/11/2024 2:49:55 PM By: jramones



LEGEND

---	PROPERTY BOUNDARY
---	PHASE 1 BOUNDARY
---	FUTURE PHASE BOUNDARY
---	FUTURE PROPERTY LINE
---	E., G., T. & CATV EASEMENT
---	EXISTING 1' CONTOUR
---	EXISTING 5' CONTOUR
---	PROPOSED 1' CONTOUR
---	PROPOSED 5' CONTOUR
---	PROPOSED WASTE WATER MAIN W/ FLOW ARROW
---	SINGLE 6" PVC WASTEWATER SERVICE
---	PROPOSED WASTE WATER MANHOLE
---	EXISTING WASTEWATER MAIN
---	PROPOSED WATERLINE
---	SINGLE WATER SERVICE
---	PROPOSED STORM SEWER
(X+XXX)	W.W. LATERAL STATION
---	PROPOSED CURB INLET
---	PROPOSED FIRE HYDRANT
---	WATER UTILITY CROSSING SEE DETAIL SHEET C10.00

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

- NOTES:
1. COMPACTION OF TRENCH UNDER PROPOSED PAVING SHOULD USE APPROPRIATE REPLACEMENT GRANULAR MATERIAL IF UNSUITABLE SOIL IS EXCAVATED FROM TRENCH.
 2. SEE SHEET C01.00 FOR GENERAL UTILITY NOTES.
 3. SEE DETAIL SHEET C10.00 FOR SAWS UTILITY DETAILS.
 4. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
 5. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
 6. CONTRACTOR IS TO BE RESPONSIBLE FOR TRAFFIC CONTROL PLANS AND TO PROCESS THEM THROUGH THE APPROPRIATE JURISDICTIONS.
 7. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
 8. CONTRACTOR SHALL REFERENCE CPS ELECTRICAL PLANS FOR ELECTRICAL DESIGN AND TRANSFORMER LOCATION.

* ALL WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

FAR WEST SEWERSHED - MEDIO CREEK COLLECTION AND TREATMENT AREA (MCCTA)
 DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP
 DEVELOPER ADDRESS: 16500 SAN PEDRO AVENUE SUITE 400
 CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608 - TOTAL EDU'S N/A, TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349 PLAT NO.: 24-11800247
 NUMBER OF LOTS: 0 SAWS JOB NO.: 22-1623

DATE	APR
DESCRIPTION	
REV	
DESIGNED BY:	
REVIEWED BY:	
DRAWN BY:	

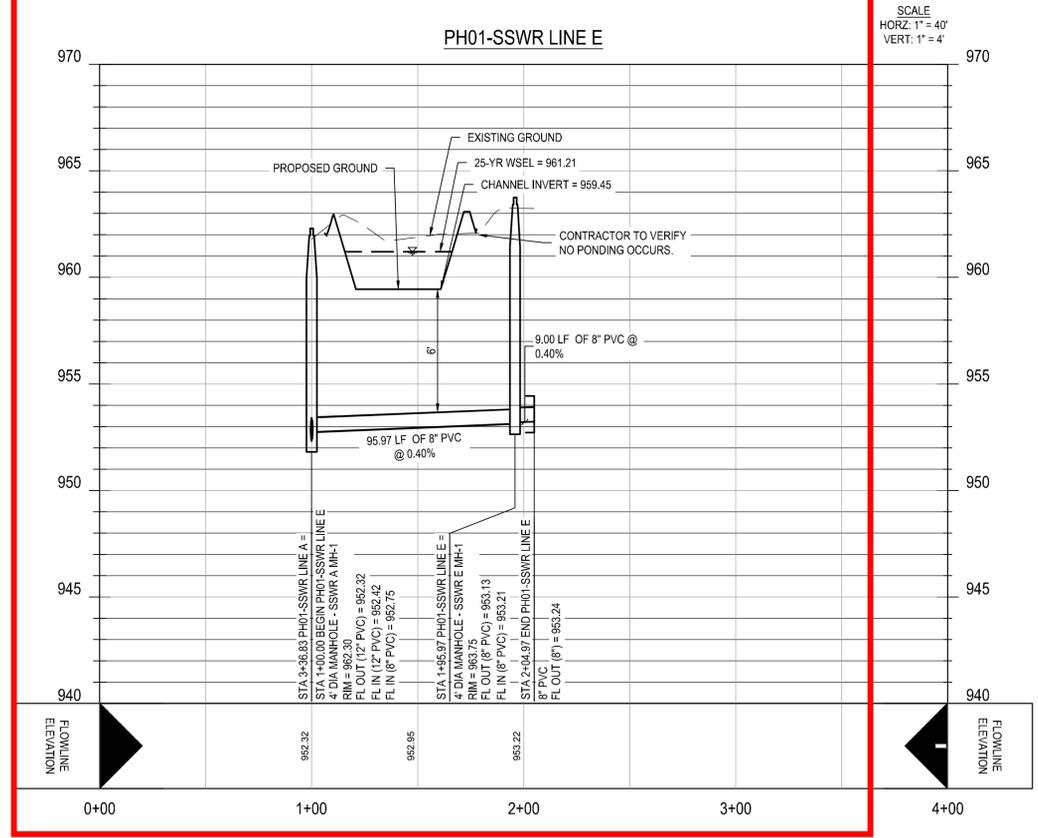
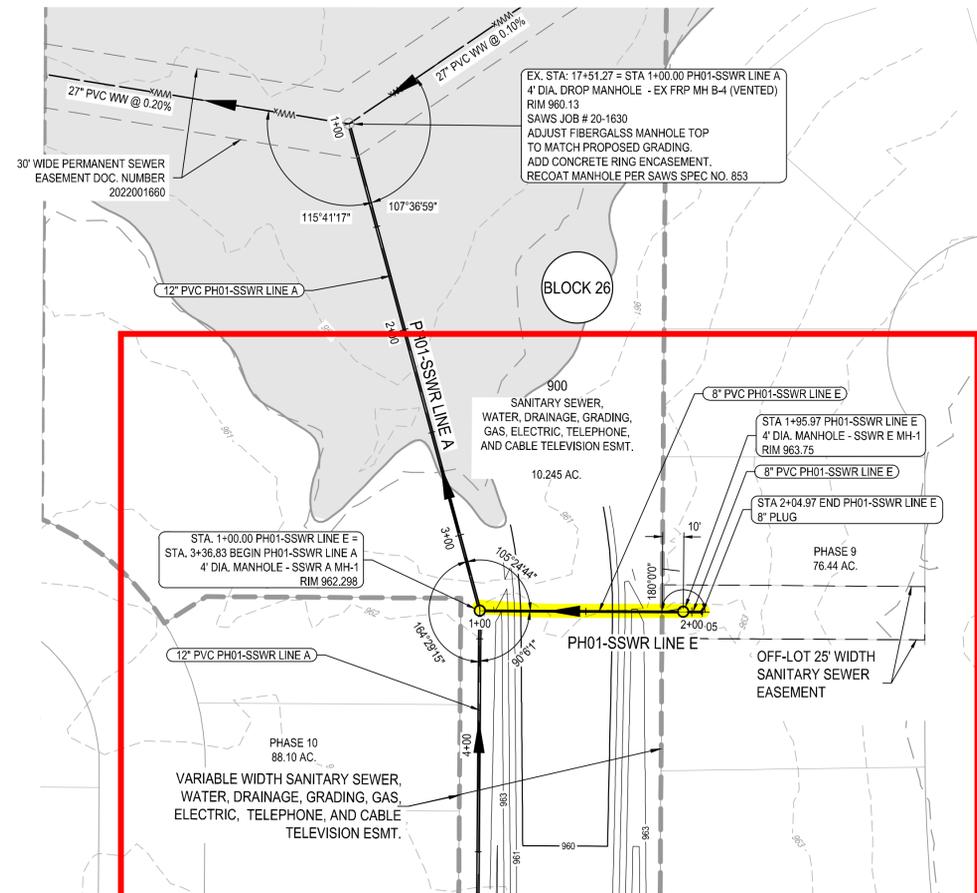
BGE

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 TSP# Registration No. P-1046

WEATHERWOOD PHASE 1
 PH01-SSWR LINE D PLAN & PROFILE
 (STA 1+00 - END)

STATE OF TEXAS
 AARON J. NEUMANN
 11445
 10/02/2024
 SHEET
 C09.07

G:\TXC\Projects\San Antonio Projects\8439-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Shts\Wastewater Plans\C09 25 PH01-SSWR LINE E PLAN & PROFILE.dwg Layout: 11 PH01-SSWR LINE E PLAN & PROFILE (STA 1+00 - END) Plotted: 9/18/2024 2:14:47 PM By: Nvelasquez



0 20' 40' 80'
SCALE: 1" = 40'

LEGEND

- PROPERTY BOUNDARY
- PHASE 1 BOUNDARY
- FUTURE PHASE BOUNDARY
- FUTURE PROPERTY LINE
- E., G., T. & CATV EASEMENT
- - - - - EXISTING 1' CONTOUR
- - - - - EXISTING 5' CONTOUR
- - - - - PROPOSED 1' CONTOUR
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- PROPOSED WATERLINE
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- PROPOSED STORM SEWER
- (X+XX.XX) W.W. LATERAL STATION
- PROPOSED CURB INLET
- PROPOSED FIRE HYDRANT
- WATER UTILITY CROSSING
SEE DETAIL SHEET C10.00
- STORM SEWER UTILITY CROSSING
SEE DETAIL SHEET C10.00

TRENCH EXCAVATION SAFETY PROTECTION

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 CITY: SAN ANTONIO, STATE: TX, ZIP: 78232
 PHONE: N/A, FAX: N/A
 SAWS BLOCK MAP #: 052608, TOTAL EDUS: N/A, TOTAL ACREAGE: 29.6
 TOTAL LINEAR FOOTAGE OF PIPE: 4,349, PLAT NO.: 24-11800247
 NUMBER OF LOTS: 0, SAWS JOB NO.: 22-1623

NOT FOR CONSTRUCTION

WEATHERWOOD PHASE 1

PH01-SSWR LINE E PLAN & PROFILE (STA 1+00 - END)

REV	DESCRIPTION	DATE	APR

DESIGNED BY:

REVIEWED BY:

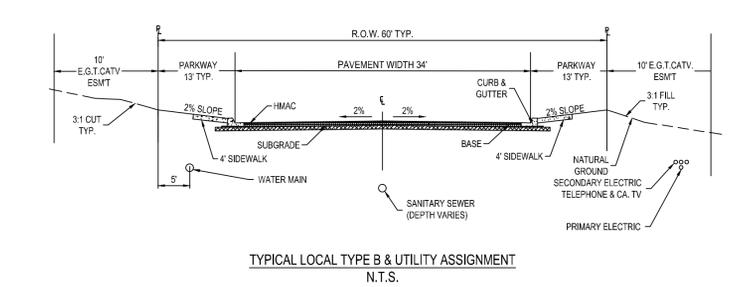
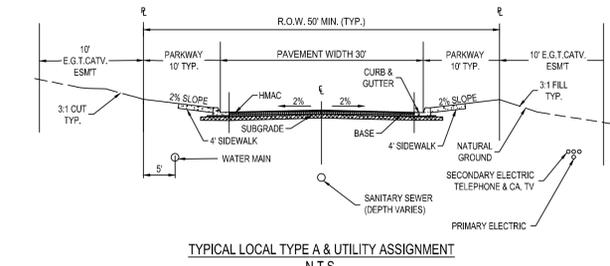
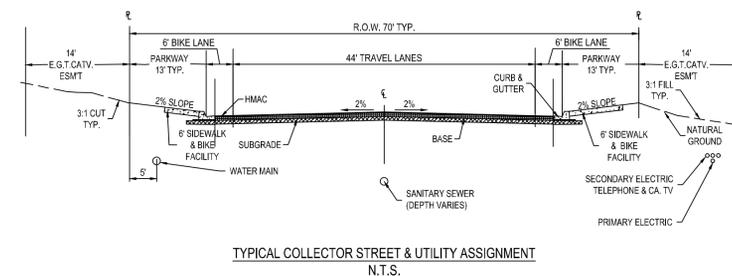
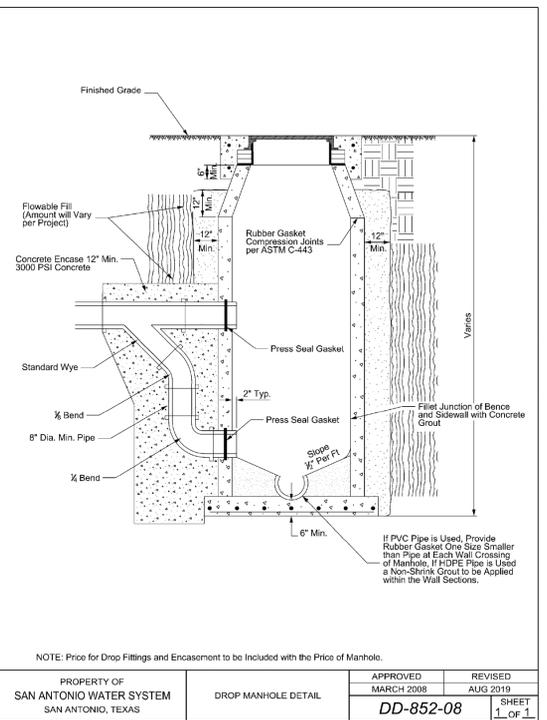
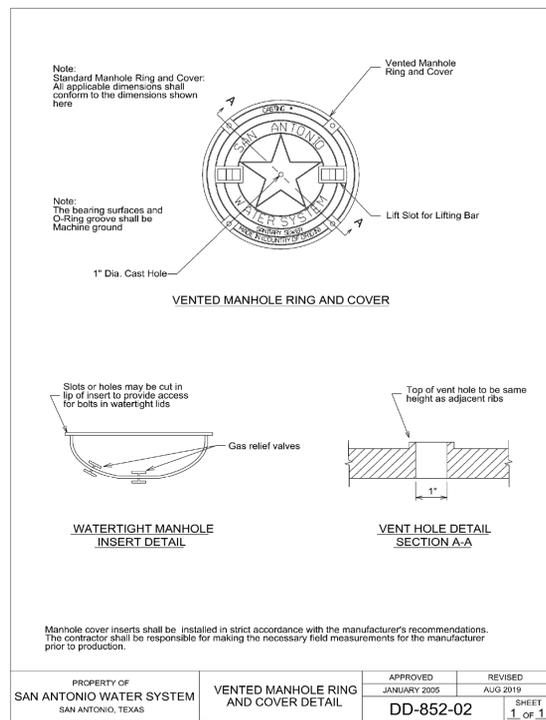
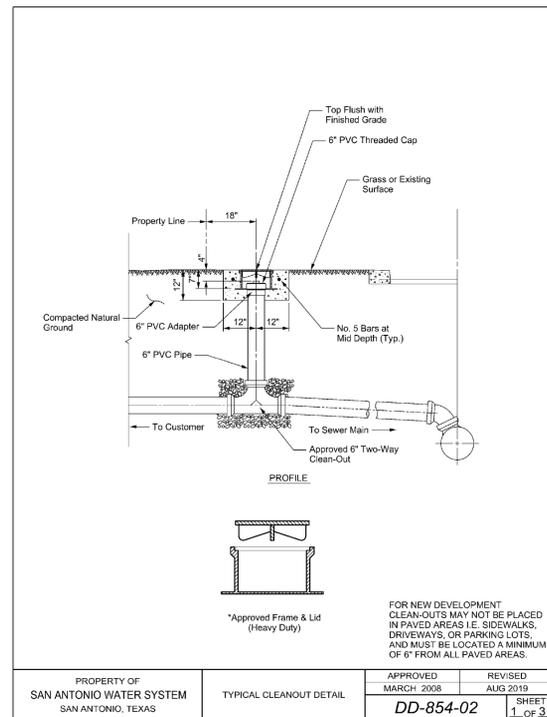
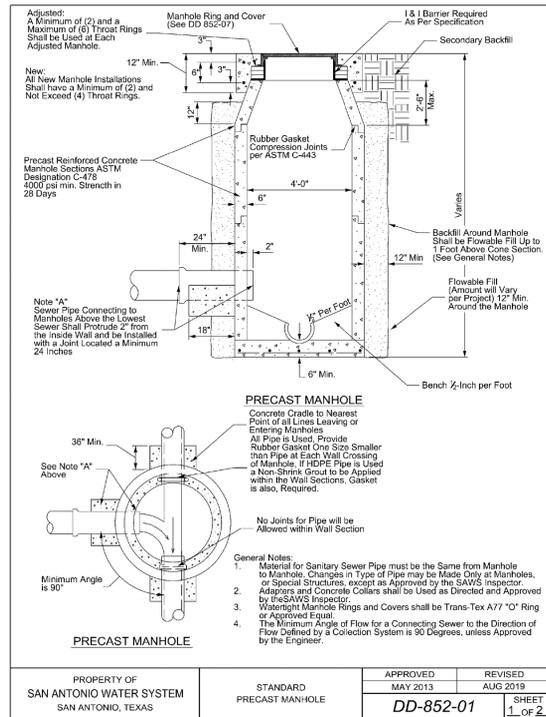
DRAWN BY:

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 TYPE Registration No. P-1046

09/20/2024

SHEET
C09.08

G:\TXC\Projects\San Antonio Projects\8439-00 - Schuchart Ranch\05 - Phase 1 Design\03_CADD\01_Shts\Wastewater Plans\C10.00 WW CIVIL UTILITY DETAILS.dwg Layout: 12:11:48:46 AM By: Jramones



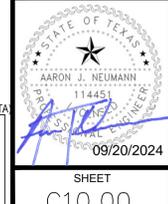
REV	DESCRIPTION	DATE	APR

DESIGNED BY:
REVIEWED BY:
DRAWN BY:



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SAN ANTONIO, TX 78216
TEL: 214-581-3600 • www.bge.com
TX P.E. Registration No. F-1046

WEATHERWOOD PHASE 1
WW - SAWS WASTEWATER DETAILS



SAWS NOTE:
1. THE CONTRACTOR SHALL OBTAIN THE SAWS STANDARD DETAILS FROM THE SAWS WEBSITE, HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN THE DESIGN PLANS.

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